

AMENDMENTS TO THE CLAIMS

The following list of claims replaces all previous claims, and listings of claims, in the application.

1. **(Currently Amended)** A starting system for a single-phase induction motor comprising:

a stator having a running coil and a starting coil[[,]];

a power source which supplies current to said running coil and said starting coil;

a running switch and a starting switch, each switch having an open and a closed condition,
respectively connecting the running coil and starting coil to the power source when in [[a]] the
closed condition; ~~said starting switch being conducted to an open condition upon completion of the~~
~~motor start;~~

a current sensor coupled to the stator and operatively connected to the control unit, adapted
to determine when the current to at least one of the running coil and the starting coil crosses zero;

and

a control unit supplied by the power source and operatively connected to the current sensor,
the running switch and the starting switch in order to instruct the running switch and the starting
switch to assume their open and closed conditions, ~~open and closed conditions thereof, wherein:~~

~~said control unit is programmed to operate the running switch in order to cause a delay in the~~
~~supply of the current supplied to the running coil in relation to the supply of the current supplied to~~
~~the starting coil during the motor start for a determined time interval which is previously defined~~
~~and considered from the zero-crossing moment of the current supplied to the stator.~~

wherein at start up during acceleration the control unit instructs the starting switch to close, and each time the current to at least one of the running coil and the starting coil crosses zero the current sensor informs the control unit, the running switch opens, and the control unit instructs the running switch to close after a determined time interval considered from the moment the current in at least one of the running coil and the starting coil crosses zero, to thereby intermittently feed current to the running coil while continuously feeding current to the starting coil, and
wherein after acceleration is complete the control unit instructs the starting switch to open.

2. **(Currently Amended)** The system as set forth in claim 1, wherein at startup during acceleration each moment time the supply current of supplied to at least one of the running coil and the starting coil reaches crosses zero, the control unit instructs the running switch to open, ~~which condition is maintained during the determined time interval, after which the control unit instructs the running switch to close.~~

3. **(Currently Amended)** The system as set forth in claim 1, wherein the determined time interval delay in supplying the current to the running coil is at maximum 90 degrees.

4. **(Cancelled)**

5. **(Previously Presented)** The system as set forth in claim 1, wherein at least the running switch is a semi-conductor.

6. **(Previously Presented)** The system as set forth in claim 5, wherein the running switch is a triac.

7. **(Currently Amended)** The system as set forth in claim 1, wherein ~~predetermined~~ the determined time interval is previously defined as a function of ~~the~~ constructive characteristics of the motor.